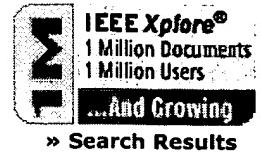


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L1	1	display\$4 same user\$1 same screen\$1 same search\$4 same (result\$1 or report\$1) same group\$4 same context\$1 same categor\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 08:37
L2	0	L1 same ((subcategor\$4 or sub-categor\$4) same level\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 08:38
L3	1	drill\$4 same select\$4 same categor\$4 same icon\$1 same access\$4 same search\$4 same result\$4 same member\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 08:39
L4	1	lower\$1 same level\$1 same categor\$4 same icon\$1 same access\$4 same member\$1 same display\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 08:41
L5	219685	ucommon\$1 same display\$4 same (sub-categor\$4 or subcategor\$4) same level\$1 graphical\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 08:43
L6	219685	uncommon\$1 same display\$4 same (sub-categor\$4 or subcategor\$4) same level\$1 graphical\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 08:43
L7	33	uncommon\$1 same display\$4 same (sub-categor\$4 or subcategor\$4) same level\$1 graphical\$4 same context\$1 same independently	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 08:44
L8	2	uncommon\$1 same display\$4 same (sub-categor\$4 or subcategor\$4) same level\$1 graphical\$4 same context\$1 same independently same (result\$1 or report\$4) same (node\$1 or child\$1 or parent\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 08:45

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1 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Full text available: [pdf\(8.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), ...

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both including: primality testing (a classical problem in number theory), interactive probabilistic proofs ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers, probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, prime algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaboration**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), ...

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. It allows the user with the desired overview of the application. In our experience, such tools display repeated occurrences

3 Heuristic and randomized optimization for the join ordering problem

Michael Steinbrunn, Guido Moerkotte, Alfons Kemper

August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 1

Full text available: [pdf\(385.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index](#), ...

Recent developments in database technology, such as deductive database systems, have given rise to the demand for more efficient query processing. In this paper many different algorithms that compute approximate solutions for optimizing join orders are studied. The join ordering problem is a complex problem. Two possible solution spaces, the space of left-deep and bushy processing trees, are evaluated.

Keywords: Genetic algorithms, Heuristic algorithms, Join ordering, Query optimization, Randomized algorithms

4 VLSI cell placement techniques

K. Shahookar, P. Mazumder

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Full text available: [pdf\(5.28 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), ...

VLSI cell placement problem is known to be NP complete. A wide repertoire of heuristic algorithms exists in the objective of this paper is to present a comprehensive survey of the various cell placement techniques, with emphasis on placement are discussed: simulated annealing, force-directed placement, min-cut placement, placement by neural networks.

Keywords: VLSI, floor planning, force-directed placement, gate array, genetic algorithm, integrated circuits, cell placement

5 Design and analysis of efficient hierarchical interconnection networks

Sizheng Wei, Saul Levy

August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing**

Full text available:  pdf(1.07 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Transitive closure algorithms based on graph traversal

Yannis Ioannidis, Raghu Ramakrishnan, Linda Winger

September 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 3

Full text available:  pdf(4.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Several graph-based algorithms have been proposed in the literature to compute the transitive closure of a directed graph. We compare the performance of their implementations in a disk-based environment with a well-known graph search to traverse a graph and a technique called marking to avoid processing some of the arcs in the graph.

Keywords: depth-first search, node reachability, path computations, transitive closure

7 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-art of graphics

Computer Graphics staff

September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Full text available:  pdf(9.03 MB)

Additional Information: [full citation](#), [references](#)

8 Parameterized object sensitivity for points-to analysis for Java

Ana Milanova, Atanas Rountev, Barbara G. Ryder

January 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 1

Full text available:  pdf(413.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The goal of *points-to analysis* for Java is to determine the set of objects pointed to by a reference variable or context sensitivity for flow-insensitive points-to analysis for Java. The key idea of our approach is to analyze a program's control flow graph and determine the objects on which this method may be invoked. To ensure flexibility and practicality, we propose a parameterized analysis that can be applied to any Java program.

Keywords: Static analysis, class analysis, context sensitivity, def-use analysis, points-to analysis, side-effect analysis

9 The complexity of probabilistic verification

Costas Courcoubetis, Mihalis Yannakakis

July 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 4

Full text available:  pdf(4.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

We determine the complexity of testing whether a finite state, sequential or concurrent probabilistic program satisfies a safety property. For sequential programs, we show that the problem is EXPTIME-complete. For concurrent programs, we present an algorithm that runs in time linear in the program and exponential in the number of processes. This is the first known lower bound. For concurrent programs, we show that the problem can be solved in time polynomial in the number of processes.

Keywords: EXPTIME-complete, Markov chain, PSPACE-complete, automata, model checking, probabilistic algorithms

10 An efficient parallel algorithm for the single function coarsest partition problem

Joseph F. JáJá, Kwan Woo Ryu
August 1993 **Proceedings of the fifth annual ACM symposium on Parallel algorithms and architectures**

Full text available: [pdf\(900.16 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 The Quadtree and Related Hierarchical Data Structures

Hanan Samet
June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available: [pdf\(4.87 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 A hierarchical access control model for video database systems

Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu
April 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 2

Full text available: [pdf\(6.27 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Content-based video database access control is becoming very important, but it depends on the progresses of supporting semantic visual concept representation; (b) effective video database indexing structure; (c) the de access control models tailored to the characteristics of video data. In this paper, we propose a novel approach

Keywords: Video database models, access control, indexing schemes

14 Synchronous relaxation for parallel simulations with applications to circuit-switched networks

Stephen G. Eick, Albert G. Greenberg, Boris D. Lubachevsky, Alan Weiss
October 1993 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 3 Issue 4

Full text available: [pdf\(1.86 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Synchronous relaxation, a new, general-purpose, efficient method for parallel simulation, is proposed. The me circuit-switched communication networks. To show that synchronous-relaxation method is efficient, we presen analytic approximations derived from a mathematical model of the simulation method.

Keywords: discrete event, fixed point, parallel, relaxation

15 xlinkit: a consistency checking and smart link generation service

Christian Nentwich, Licia Capra, Wolfgang Emmerich, Anthony Finkelstein
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available: [pdf\(463.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

xlinkit is a lightweight application service that provides rule-based link generation and checks the consistency notably XML, XPath, and XLink. xlinkit can be used as part of a consistency management scheme or in applica management of large document repositories. In this article we show how consistency constraints can be expre

Keywords: Consistency management, XML, automatic link generation, constraint checking

16 Efficient trace-driven simulation method for cache performance analysis

Wen-Hann Wang, Jean-Loup Baer
April 1990 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1990 ACM systems**, Volume 18 Issue 1

Full text available:  pdf(1.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

We propose improvements to current trace-driven cache simulation methods to make them faster and more efficient. We show how to reduce the number of traces required for simulation in two ways. First, we reduce the program traces to the extent that exact performance can still be predicted. Second, we produce performance results for a variety of metrics (hit ratio, write-back counts, bus traffic) for a large number of programs.

17 Simple algorithms for routing on butterfly networks with bounded queues

Bruce M. Maggs, Ramesh K. Sitaraman

July 1992

Proceedings of the twenty-fourth annual ACM symposium on Theory of computing

Full text available:  pdf(1.41 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper examines several simple algorithms for routing packets on butterfly networks with bounded queue sizes. We show that each of the N inputs sends a packet to a randomly chosen output requires $O(\log N)$ steps, with high probability. We also show that for any deterministic non-predictive queuing protocol, the ...

18 From Algol to polymorphic linear lambda-calculus

Peter W. O'Hearn, John C. Reynolds

January 2000

Journal of the ACM (JACM), Volume 47 Issue 1

Full text available:  pdf(406.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In a linearly-typed functional language, one can define functions that consume their arguments in the process of computation, rather than in an imperative language, where execution of an assignment statement alters the contents of the store. We explore the translation of an Algol-like language into a functional language with polymorphic linear types. On the one hand, the translations lead to a semantic analysis ...

Keywords: linear logic, local state, logical relations, parametric polymorphism

19 Guidance for the use of the Ada programming language in high integrity systems

B. A. Wichmann

July 1998

ACM SIGAda Ada Letters, Volume XVIII Issue 4

Full text available:  pdf(2.93 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index](#)

This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for comment. Those who have attended two recent meetings of the group or have made substantial e-mail comments are: Praful V Bhansali (Boeing Critical Systems, UK), Dan Craigen (ORA, Canada), Nick Johnson MoD, UK), Stephen Michell (Canada), Gilles

20 Probabilistic inductive inference

L. Pitt

April 1989

Journal of the ACM (JACM), Volume 36 Issue 2

Full text available:  pdf(4.04 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Inductive inference machines construct programs for total recursive functions given only example values of the function. Given various criteria of successful inference, it is asked whether a probabilistic inductive inference machine can infer the function with probability at least p , ($0 < p < 1$) as opposed to ...

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21 The efficiency of greedy routing in hypercubes and butterflies

George D. Stamoulis, John N. Tsitsiklis

June 1991 **Proceedings of the third annual ACM symposium on Parallel algorithms and architectures**

Full text available: [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

22 Enhancing visual interaction: A system for supporting and managing same-time/different-place group in

Pedro A. Antunes

May 1998

Proceedings of the working conference on Advanced visual interfaces

Full text available: [pdf\(1.68 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes a user-interface system developed to support group interactions for same-time/different these kind of systems: information sharing, coordination and multiuser-interface. The proposed approach defi dedicated to organise and structure application data. *Connections* manage group coordination. And, finally, *M*

Keywords: CSCW, group interaction

23 Time critical isosurface refinement and smoothing

V. Pascucci, C. L. Bajaj

October 2000 **Proceedings of the 2000 IEEE symposium on Volume visualization**

Full text available: [pdf\(1.29 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: consistent embedding, multi-resolution data structures, progressive algorithms, recursive subdivi

24 Representation conversions: Exploiting self-similarity in geometry for voxel based solid modeling

Eric Parker, Tushar Udeshi

June 2003

Proceedings of the eighth ACM symposium on Solid modeling and applications

Full text available: [pdf\(2.53 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Voxel-based modeling techniques are known for their robustness and flexibility. However, they have three ma needed to represent high-resolution models (2) Computationally expensive, since a large number of voxels ne needed to visualize the results. We describe techniques which alleviate these by taking advantage of self-simi

Keywords: MEMS process emulation, isosurface extraction, visualization, voxel-based data structures and alg

25 Generalized best-first search strategies and the optimality of A*

Rina Dechter, Judea Pearl

July 1985

Journal of the ACM (JACM), Volume 32 Issue 3

Full text available:  pdf(2.54 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper reports several properties of heuristic best-first search strategies whose scoring functions f depend on the current cost g and the estimated completion cost h . It is shown that several known properties of A* retain which helps establish general tests of admissibility and general condi ...

26 Are there advantages to high-dimension architectures?: Analysis of k-ary n-cubes for the class of parallel

Shantanu Dutt, Nam Trinh

January 1996

Proceedings of the 10th international conference on Supercomputing

Full text available:  pdf(1.24 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

27 Efficient hierarchical interconnection for multiprocessor systems

S. Wei, S. Levy

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**

Full text available:  pdf(1.02 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

28 Parallel graph algorithms

Michael J. Quinn, Narasingh Deo

September 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 3

Full text available:  pdf(2.40 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

29 Provably efficient scheduling for languages with fine-grained parallelism

Guy E. Blelloch, Phillip B. Gibbons, Yossi Matias

July 1995 **Proceedings of the seventh annual ACM symposium on Parallel algorithms and architecture**

Full text available:  pdf(1.62 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

30 Efficient content-based indexing of large image databases

Essam A. El-Kwae, Mansur R. Kabuka

April 2000

ACM Transactions on Information Systems (TOIS), Volume 18 Issue 2

Full text available:  pdf(850.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large image databases have emerged in various applications in recent years. A prime requisite of these databases is a multilevel signature file called the Two Signature Multi-level Signature File (2SMLSF) is introduced as an efficient way to convert image information into binary signatures and creates a tree structures can be efficiently searched ...

Keywords: content analysis and indexing, document managing, image databases, index generation, multimedia

31 Multi-scale self-simulation: a technique for reconfiguring arrays with faults

Richard Cole, Bruce Maggs, Ramesh Sitaraman

June 1993 **Proceedings of the twenty-fifth annual ACM symposium on Theory of computing**

Full text available:  pdf(1.43 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

32 Reversal complexity of counter machines

Tat-hung Chan

May 1981

Proceedings of the thirteenth annual ACM symposium on Theory of computing

Full text available:  pdf(1.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

It has long been known that deterministic 1-way counter machines recognize exactly all r.e. sets. Here we investigate reversals. Our main result is that for bounds which are at least linear, counter reversal is polynomially related both the deterministic and the nondeterministic cases. This leads to natural characterizations of the classes P

33 Randomized protocols for low-congestion circuit routing in multistage interconnection networks

Richard Cole, Bruce M. Maggs, Friedhelm Meyer auf der Heide, Michael Mitzenmacher, Andréa W. Richa, Klaus S. May 1998

Proceedings of the thirtieth annual ACM symposium on Theory of computing

Full text available:  pdf(1.73 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

34 ITiCSE 2002 working group report: Exploring the role of visualization and engagement in computer science

Thomas L. Naps, Guido Rößling, Vicki Almstrum, Wanda Dann, Rudolf Fleischer, Chris Hundhausen, Ari Korhonen June 2002

ACM SIGCSE Bulletin , Working group reports from ITiCSE on Innovation and technology

Full text available:  pdf(414.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Visualization technology can be used to graphically illustrate various concepts in computer science. We argue educational value unless it engages learners in an active learning activity. Drawing on a review of experiment the backdrop of current attitudes and best practices with respect to visualization use. We suggest a new taxon

35 Fast computation using faulty hypercubes

J. Hastad, T. Leighton

February 1989 **Proceedings of the twenty-first annual ACM symposium on Theory of computing**

Full text available:  pdf(1.65 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

We consider the computational power of a hypercube containing a potentially large number of randomly located faulty processors. Provided that the processors of the N-node hypercube are independently distributed, we show that with high probability, the fault tolerance ...

36 On the hardness of approximating optimum schedule problems in store and forward networks

Andrea E. F. Clementi, Miriam Di Ianni

April 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 2

Full text available:  pdf(1.03 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

37 Energy Awareness and Power Control: Minimum energy paths for reliable communication in multi-hop ad-hoc networks

Suman Banerjee, Archan Misra

June 2002

Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking

Full text available:  pdf(189.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Current algorithms for minimum-energy routing in wireless networks typically select minimum-cost multi-hop paths. In situations where the transmission power can be varied we propose energy-aware routing algorithms which select a path with a large number of small-distance hops. In this paper, we

Keywords: ad-hoc networks, energy efficiency, routing

38 Optimal emulations by butterfly-like networks

Sandeep N. Bhatt, Fan R. K. Chung, Jia-Wei Hong, F. Thomson Leighton, Bojana Obrenic, Arnold L. Rosenberg, E. March 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 2

Full text available:  pdf(3.25 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: embeddings, emulations, mapping algorithms, mapping problems, parallel architectures, process

39 A two-layer library-based approach to synthesis of analog systems from VHDL-AMS specifications

Alex Doboli, Nagu Dhanwada, Adrian Nunez-Aldana, Ranga Vemuri

April 2004

ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 9

Full text available:  pdf(658.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents a synthesis methodology for analog systems described using VHDL-AMS language. Synth library, and sized so that specified objectives (like AC response, signal to noise ratio, dynamic range, area) ar is bridged using a two-layered methodology. The first layer is architecture generation. The second layer is com

Keywords: Analog synthesis, VHDL-AMS, branch-and-bound, genetic algorithms, performance estimation

40 A Distributed Algorithm for Minimum-Weight Spanning Trees

R. G. Gallager, P. A. Humblet, P. M. Spira

January 1983 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 5 Issue 1

Full text available:  pdf(762.91 KB)

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